



MOBILE COMPUTER TILTING ARRANGEMENT

BACKGROUND OF THE INVENTION

1. Field of the Invention

5 The present invention relates to a mobile computer tilting arrangement and, more particularly, to such a mobile computer tilting arrange, which enables the mobile computer to be supported on the top of a table in a tilting position.

2. Description of Related Art

10 The display module of a conventional mobile computer can only be supported and turned in one particular direction. Following fast development of computer technology, the display window of a computer can alternatively be changed between a longitudinal mode and a transverse mode. Conventional fixed display support designs cannot satisfy market requirements. Further, when a tablet PC (personal computer) put on the top
15 of a table, the light reflecting status of the display screen may interfere with the working of the user.

Therefore, it is desirable to have a mobile computer tilting arrangement that enables the mobile computer to be selectively supported on a flat surface in longitudinally extended sloping position or a
20 transversely extended sloping position as desired.

SUMMARY OF THE INVENTION

It is the main object of the present invention to provide a mobile computer tilting arrangement, which enables the mobile computer to be longitudinally or transversely supported on a flat surface in a sloping

position as desired.

To achieve these and other objects of the present invention, the mobile computer tilting arrangement comprises a casing, and two plugs. The casing comprise a back side, and at least two recessed locating holes respectively
5 disposed in at least two corners of the back side. The plugs are selectively press-fitted to two of the at least two locating holes adjacent to the same peripheral side for supporting the casing on a flat surface in a sloping position. Each plug comprise a center through hole, and a pin insertable into the center through hole to radially expand the respective plug into friction
10 engagement, within one recessed locating hole of the casing into which the respective plug is press-fitted. The outer diameter of the pin is slightly greater than the inner diameter of the center through hole of each plug. The two plugs each comprise a head on one end. The head of each plug comprising an upper side and a bottom side, wherein the bottom side is
15 stopped outside the back side of the casing when the respective plug inserted into one recessed locating hole of the casing. The pin is preferably made from metal, comprising a pull tab at one end. The pull tab is preferably pivoted to the pin. Through the pull tab, the pin can easily be disconnected from the respective plug, for enabling the respective plug to
20 be removed from the casing. By means of changing the positioning of the plugs in the recessed locating holes of the casing, the plugs can selectively support the casing on a flat surface in an axially extended sloping position or a transversely extended sloping position as desired. The plugs are molded from rubber or made from suitable elastic material, each

comprising a recess on the upper surface of the head for receiving the pull tab of the respective pin in flush with the upper surface of the head of the corresponding plug, and a finger notch through which the finger can be inserted to lift the pull tab. The pull tab can be shaped like a ring, a triangular or rectangular frame, or any of a variety of profiles. The shape of the recess fits the profile of the pull tab.

Other objects, advantages, and novel features of the invention will become more apparent from the following detailed description when taken in conjunction with the accompanying drawings.

10 BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a rearview of a casing of a mobile computer tilting arrangement according to the preferred embodiment of the present invention.

15 FIG. 2 is a schematic sectional view showing the installation of one plug in one recessed locating hole of the casing according to the present invention.

FIG. 3 is a schematic drawing showing the casing supported on the top of a table in a sloping position.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

20 Referring to FIG. 1, a mobile computer tilting arrangement in accordance with the present invention is shown comprising a casing 1 of a mobile computer, and two elastic plugs 20 and 21. The casing 1 has a back side 10, and three recessed locating holes 11, 12, and 13 respectively disposed in three corners 110, 120, and 130 of the back side 10. The two

elastic plugs **20** and **21** are selectively press-fitted into two of the three recessed locating holes **11,12**, and **13** that are disposed adjacent to one same peripheral side of the casing **1**. Further, the elastic plugs **20** and **21** are preferably molded from rubber.

5 Referring to FIGS. 2 and 3, each plug **20** comprising a head **211**, a center through hole **212** axially piercing through the center of the plug **20** , a pin **213** inserted through the center through hole **212**, and a pull tab, for example, a pull ring **215** , which pivoted to one end of the pin **213**. The pin **213** is a cylindrical metal member comprising an outer diameter **d2** slightly
10 greater than the inner diameter **d1** of the center through hole **212**. When in use, the plug **20** is press-fitted into one of the recessed locating holes **11**, keeping the flat bottom side **214** of the head **211** stopped at the back side **10** of the casing **1** (see also FIG. 1), and then the pin **213** is inserted into the center through hole **212** to expand the plug **20** radially and to force the
15 peripherally ribbed outer surface **210** of the plug **20** shank into friction-engagement with the peripheral wall inside of the corresponding recessed locating hole **11**. After installation of two plugs **20,21** into any of the two recessed locating holes **11, 12, 13** neighboring to one same peripheral side of the casing **1**, the casing **1** of a mobile computer can be
20 supported on the top of a table in a tilting angle **t** (see FIG. 3)

Referring to FIG. 2 again, the head **211** has a positioning recess **217** on the flat upper surface **216** where the pull ring **215** is kept in flush with the flat upper surface **216** of the head **211**. The head **211** further comprising a finger notch **218** disposed in the flat upper surface **216** in communication

with the positioning recess **217**. The user can insert the finger into the finger notch **218** to lift the pull ring **215** and then to pull the pin **213** out of the respective plug **20**, enabling the respective plug **20,21** to be removed from the corresponding recessed locating hole **11, 12, 13**.

5 Referring to FIGS. 1~3 again, by means of selectively fastening the two plugs **20,21** to any of two of the recessed locating hole **11, 12**, and **13**, the plugs **20,21** can support the casing **1** of the mobile computer in an axially tilted sloping position or transversely tilted sloping position.

10 Although the present invention has been explained in relation to its preferred embodiments, it is to be understood that many other possible modifications and variations can be made without departing from the spirit and scope of the invention as hereinafter claimed.